

Amendments to the Claims:

This listing of the claims replaces all prior versions of the claims in the application:

Listing of the Claims:

1. (Currently Amended) A method of diagnosing Alzheimer's Disease or a predisposition thereto in a mammal, the method comprising
 - a) _____ contacting an ocular tissue with a detectably-labeled compound that preferentially binds to an amyloid protein located in an ocular tissue, wherein the detectably-labeled compound is an amyloidophilic fluorescent dye[[,]];
 - b) _____ allowing said compound to distribute into the lens; and
 - c) _____ imaging said ocular tissue,wherein an increase in binding of said compound to said ocular tissue compared to a normal control level of binding indicates that said mammal is suffering from or is at risk of developing Alzheimer's Disease.
2. (Currently Amended) The method of claim 1, wherein said detectably-labeled compound is thioflavin S.
3. (Currently Amended) The method of claim 1, wherein said detectably-labeled compound is thioflavin T.
4. (Original) The method of claim 1, wherein said detectably-labeled compound preferentially binds to an amyloid- β ($A\beta$) polypeptide.
5. (Original) The method of claim 4, wherein said detectably-labeled compound preferentially binds to $A\beta$ (1-42).
6. (Currently Amended) The method of claim 1, wherein the ~~method further comprises~~ imaging ocular tissue comprises a cortical region of the eye lens.

7. (Currently Amended) The method of claim 6, wherein the ~~method further comprises~~ imaging ocular tissue comprises a supranuclear region of an eye lens.

8. (Original) The method of claim 1, wherein said increase is at least 10% greater than said normal control value.

9. (Original) The method of claim 1, wherein said increase is at least 25% greater than said normal control value.

10. (Original) The method of claim 1, wherein said increase is at least 50% greater than said normal control value.

11. (Original) The method of claim 1, wherein said increase is at least 100% greater than said normal control value.

12.-53. (Cancelled)